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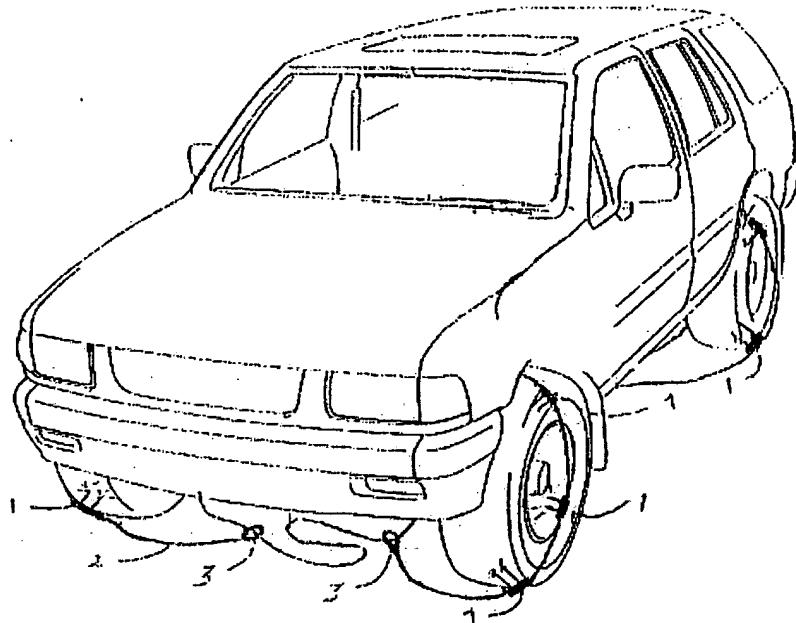
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(71) Demandeur/Applicant:
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(54) Titre : PIEGE POUR ROUES D'AUTOMOBILE
(54) Title: AUTOMOBILE WHEEL AND TRACK SNARE



(57) Abrégé/Abstract:

What I claim to be my invention is a vehicle disabling device wherein a plurality of holding spike like probes with base plates strung on to a cable of wire rope with ends fashined in to a running boline or noose to chock and hold vehicle tires wheels and control arms wheels meaning part steel or all steel all steel such as on a track driven vehicle.

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COLLIER

ABSTRACT

What I claim to be my invention is a vehicle disabling device wherein a plurality of holding spike like probes with base plates strung on to a cable of wire rope with ends fashined in to a running boline or noose to chock and hold vehicle tires wheels and control arms wheels meaning part steel or all steel all steel such as on a track driven vehicle.

METHOD FOR DISABLING WHEEL AND TRACK DRIVEN VEHICLE

FIELD OF THE INVENTION

The device is an invention to disable vehicles.

BACKGROUND OF THE INVENTION

Every year persons are killed in high speed motor vehicle chases, when police are forced into chasing fleeing suspects. The victim of these high speed chases include police officers, suspects, and members of the public. Members of the military are often time victim.

Description of the prior art. Various road barriers and tire piercing structure has been utilized in the prior art to prevent vehicle from fleeing from police. Prior art tire piercing apparatus is exemplar in U.S. Pat. No. 4,473, 948 Chadwick where in a base plate includes a plurality of pins projecting upwards of the base plate to prevent an automobile from being driven. U. S. Pat. No. 4,382,714 Hutchison this invention is a vehicle disabling device adapted to project a plurality of spike like devices to puncture one or more tires of a fleeing vehicle. Spike bases secured to bases by either a strand or cord also a short length of chain.

Collier

Appl. No. 60/136,142 Filing date May 14, 1999

1 Review fig. 7 fig. 8
2 Fig. 7. no. 2 is base plate, no. 5 cable
3 sleeve, view show tire riding up on and
4 holding base plate in place. Fig. 8 view
5 of three wheels being caught up by a three
6 cable set of snairs on a 4 wheel drive
7 vehicle. Fig. 9 is folding deployment board
8 with cable spikes and bases attached with
9 break away clips.

10 The object of the invention is to pro-
11 vide vehicle stoping device in quickest
12 possible time. This is done by using a tire
13 snair that grabs and holds the tire in its
14 place. Snair spikes are polly coated as they
15 inter the tire the air pressure stayes
16 intact. If the tires are jelled or solid so
17 much the better. Cable is theaded threw
18 guide sleeves attached to bottom of base
19 plate. Each end of cable has sliding noose
20 to effect a tether. As the tire and wheel
21 become impaled probes and cable are pulled
22 up and around the wheel in a diaginal effect,
23 probes grip the sides of wheel and tire causing
24 a coil that raps around wheel control arms
25 and drive axles, this action renders the
26 vehicle immovable.

27 The device is simplistic compact, easy to
28 manufacture transport and deploy. O-mitting
29 deployment board rapping with rubber cord
30 device may be deployed by aircraft.

Collateral Information

Information contained in this document is not to be distributed outside the organization.

BRIEF DESCRIPTION OF DRAWINGS

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Fig. 1. is an side view of baseplate; **Fig. 2.** is a isometric projection of base plate showing sleeve with cable and impaling screws.

Fig. 2. is a view of cable and spike screw, folding base with hinges for deployment.

Fig. 3. is a view of device laid out in front of vehicle.

Fig. 5. is a view showing cable with loops coiling around wheel control arms and drive axles. Cable clamp for cable loop.

Fig. 6. is a view showing cable snare gripping wheel. No.2 spikes.

Fig. 7. shows tire holding spike base plate to facilitate spike penetration.

Fig. 8. showing 3 cable snare locking on to 3 wheels of a 4 wheel drive vehicle.

Fig. 9 cable spikes with base plates and folding deployment board.

14

Collier Appl. No. 60/136,142 What I claim 1. A, S

SUMMARY OF THE INVENTION

What is required is a method and apparatus that can be used to halt a suspect's motor vehicle in advance of police chase, rendering a high speed chase unnecessary. In its preferred embodiment the wheel and track snair consists of a folding deployment board ± Ten feet long, one or two feet wide, measurements can be approxameted depending on the immediate requirements, as the device can be assembled in a very short time. The device with its built in nomenclature is designed to halt a vehicle in a very short time, with in moments of contact. If only one front wheel is snared cable and spikes will reach a rear wheel coiling around said wheel rendering it motionless. Add one more cable snair for four wheel drive vehicle. Half-track or all track vehicle such as military armored tank snair deviation will be explained here in after. If device snair one front wheel and one rear wheel although not explicitly depicted vehicle will be brought to a halt.

COLLIER

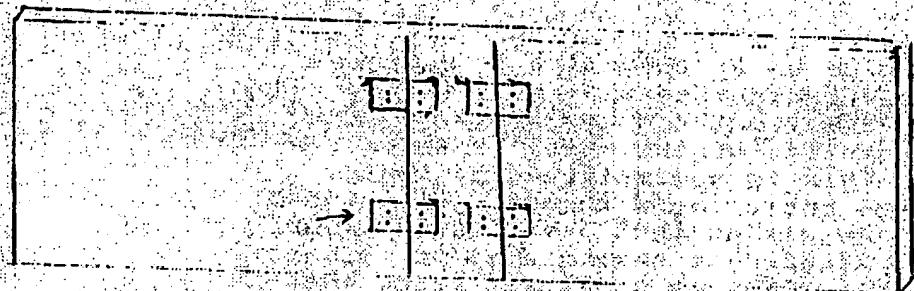


FIG. 2

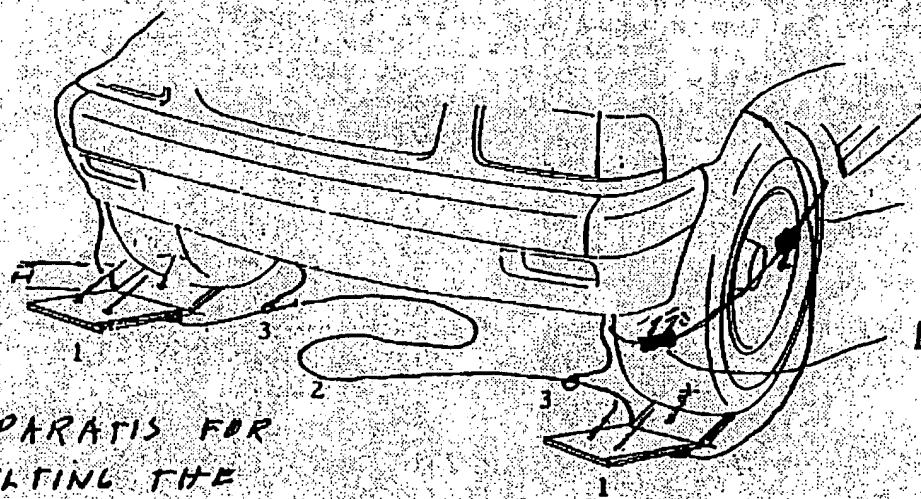


FIG. 3

APPARATUS FOR
HAULING THE
PROGRESS OF
VEHICLE

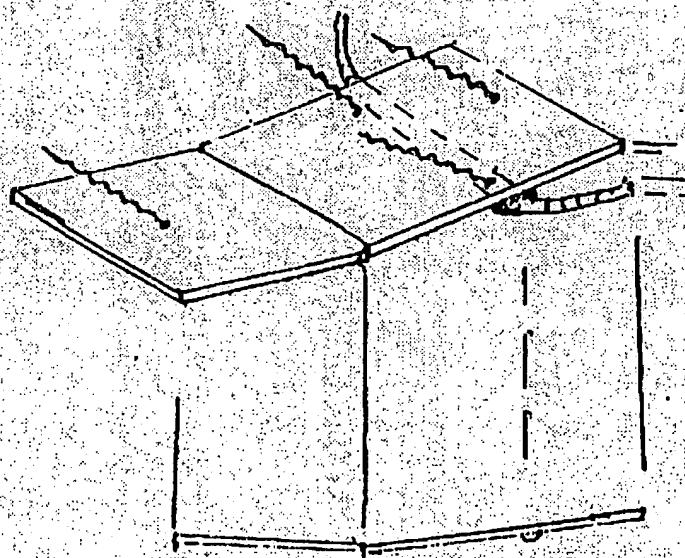


FIG. 4

FIG. 1

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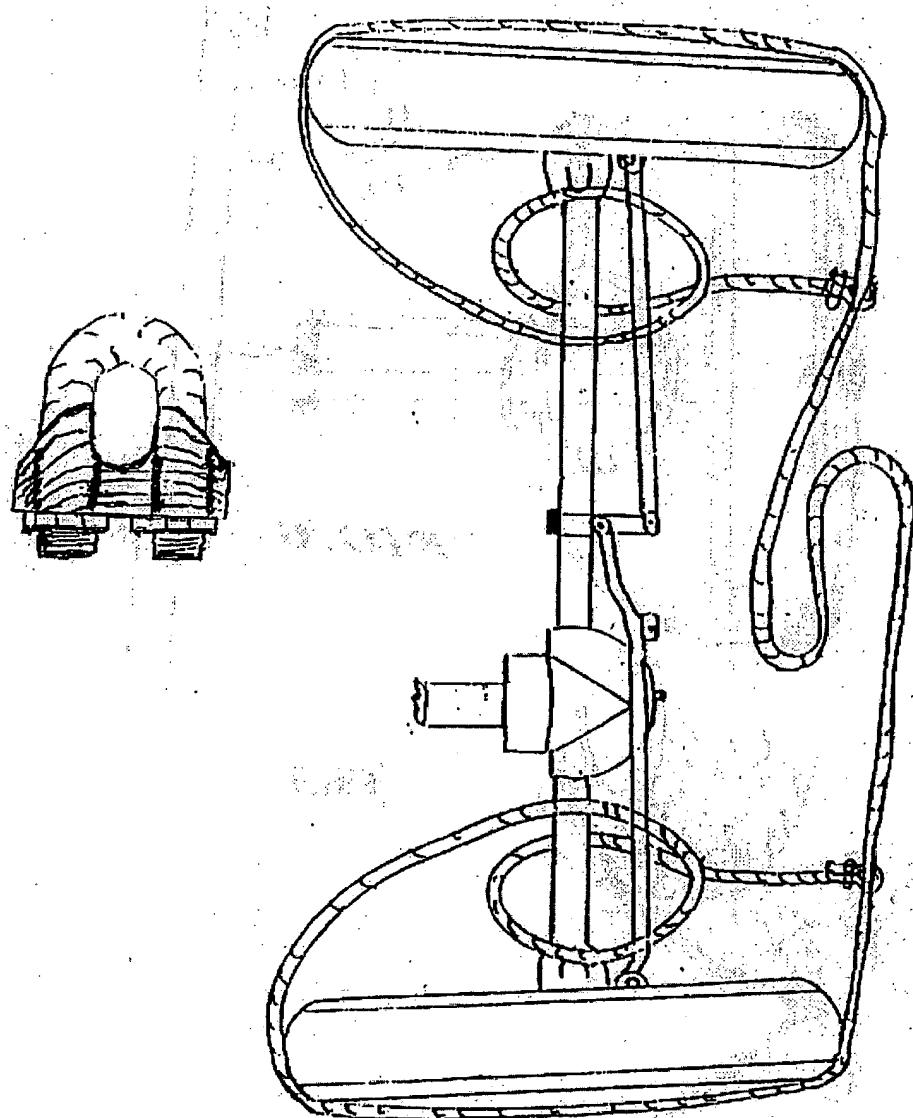
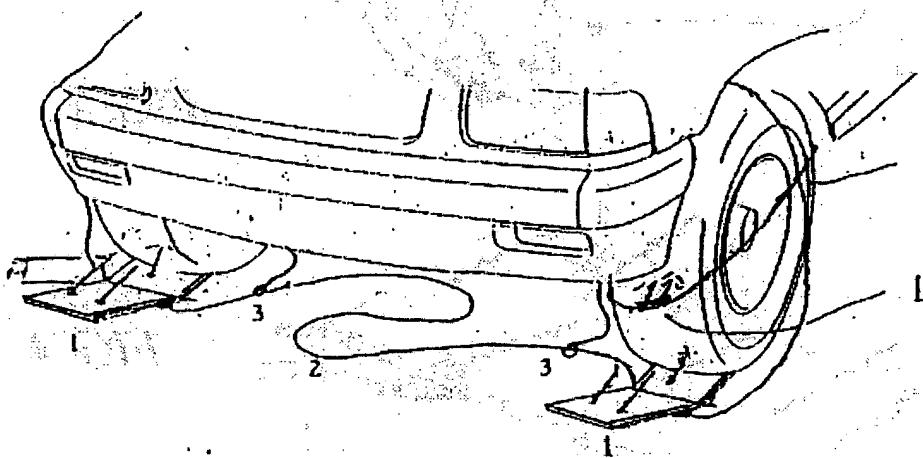


FIG. 5

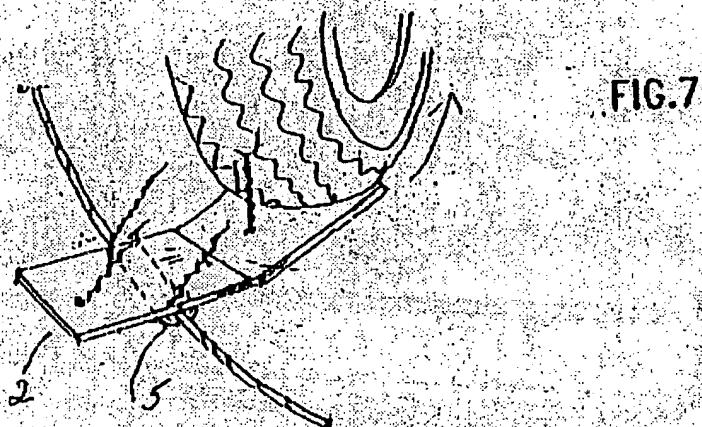
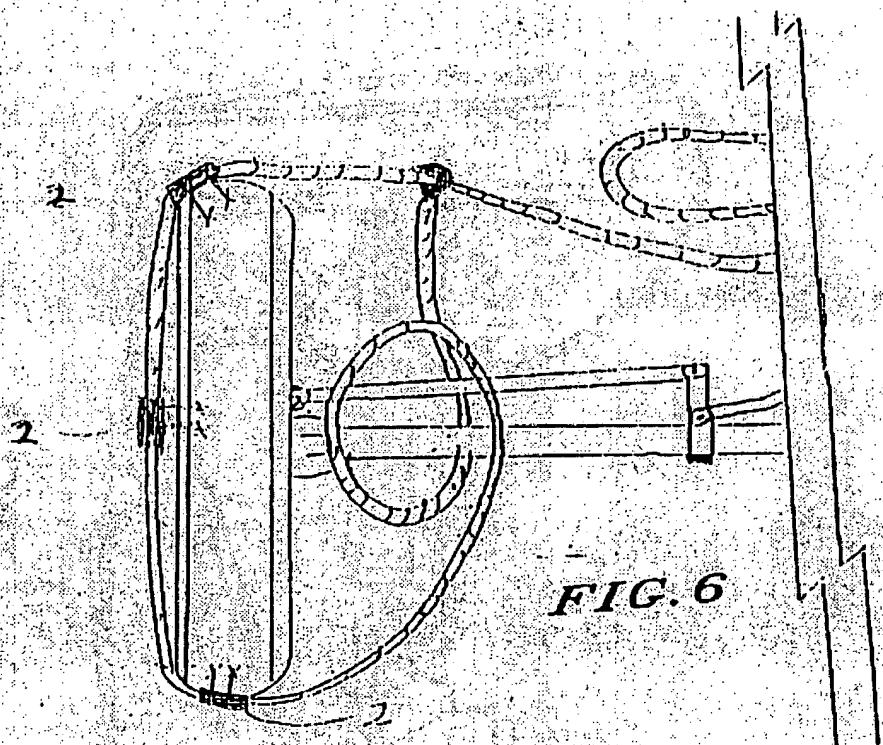
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Ace Robert Collier
P.O.BOX. 590
Bouse Az. 85325-0590

What I claim to be my invention is a vehicle disabling stopping device that will bring vehicle to a very quick stop. A one to ton vehicle regardless of the wheel or track configuration. This is accomplished by using aircraft type cable laced through guide tubes welded to base plates that have two to four tire probes attached to base plates; on track driven vehicle grappling hooks are used. When vehicle engages the device the probes look on to the tire solid or inflated. On track driven hooks lock on to track shoe and drive sprocket wheels. Cable ends are fastened with a running boline using a double clevis for heavy vehicle. The cable coils around spinning wheels and track shorting the cable until it chocks, the wheels control arms drive axles and sprocket wheels.



Collier Appl. No. 60/136,142 Filed May 14, 1999



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Appl. No. 60/136,142 Filed May 14, 1999 13
Wheel and track snair

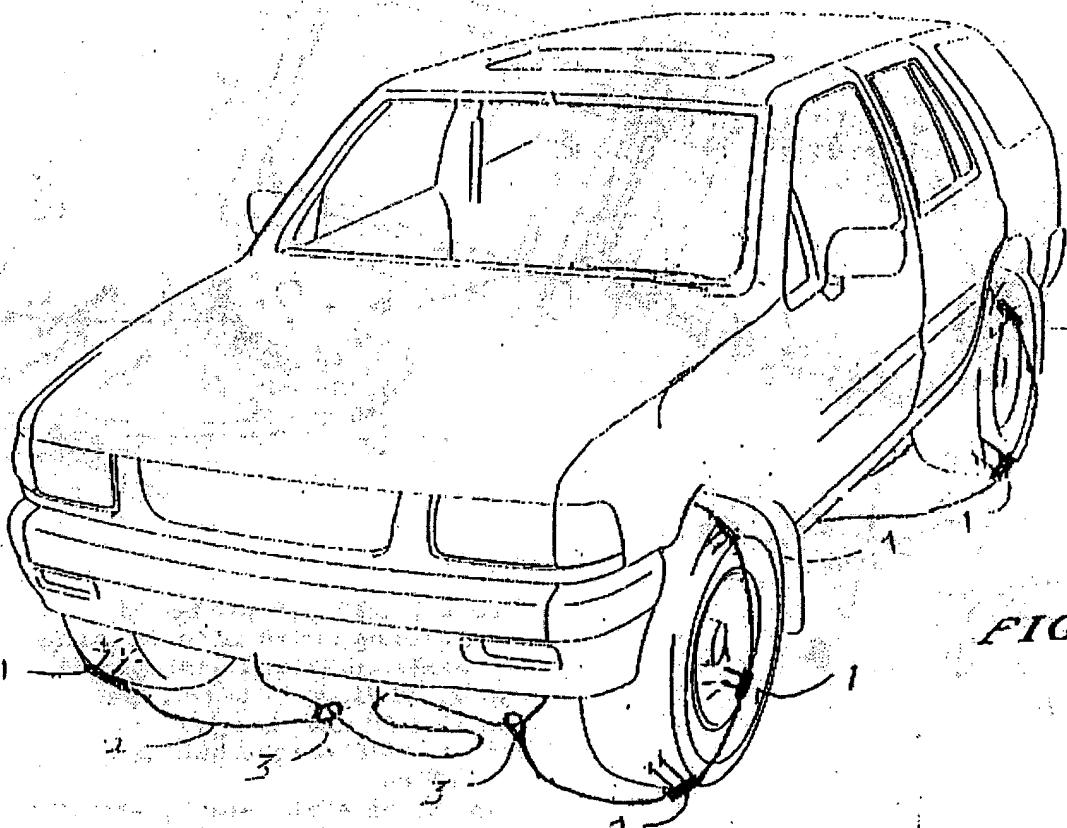


FIG. 8

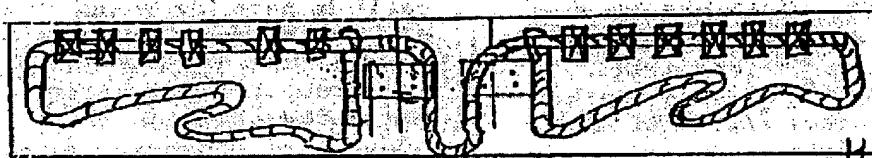
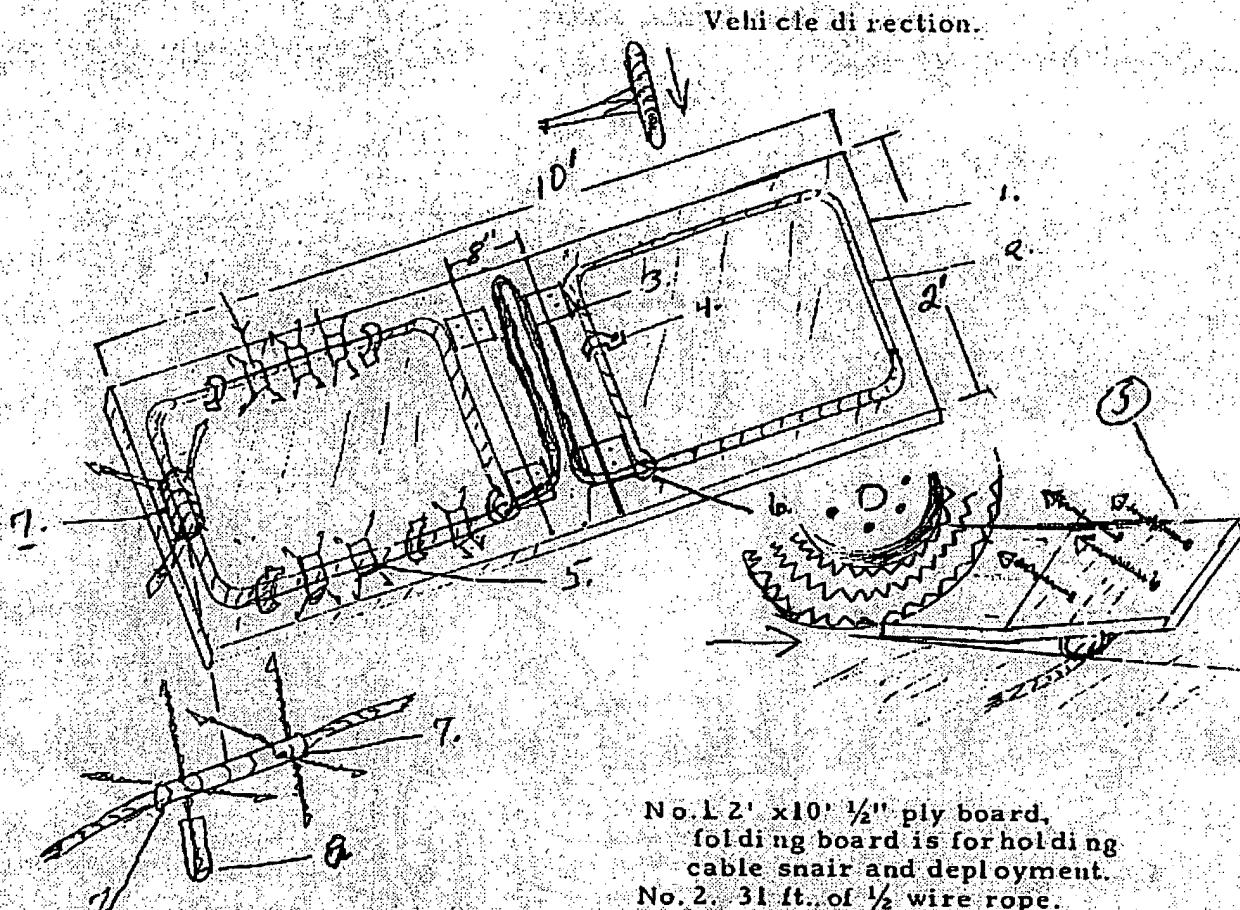


FIG 9

is OK

"COLLIER AUTOMOBILE WHEEL SNAIR"

No. 1 2' x 10' $\frac{1}{2}$ " ply board.
Folding board is for holding
cable snair and deployment.

No. 2. 31 ft. of $\frac{1}{2}$ " wire rope.

No. 3. 4 3" x 4" hinges.

No. 4. 16 2" cable hold down
clips.

No. 5. 56 4"x8" steel plate $\frac{3}{8}$ "
thick. With three 3 in. x

$\frac{5}{16}$ " tapered steel barbs.

Plate has $4\frac{1}{2}$ ' spindle for

cable to pass threw and 3" x

4" toe plate to hold spikes

against tire. Spikes will

penetrate tire at different

angle causing grip. Toe

plate set at 10 degree angle.

No. 6. Slip knot for sinching
effect on wheel and tire.
No. 7. Out side multi barbed
cylinder for locking
into tire and wheel.
Cylinder is $\frac{1}{2}$ x 6" 8 $\frac{1}{2}$ " barbs
set at 5 inches apart and 90
degree angle.
S. Cover.

Inventor Ace R Collier.

Inception, May 7, 1998.

This inception can be used on
military tanks.

Ace R Collier
May 7, 1998

J. L. K.

BLEVINS

PRIOR ART

PAT NO. 4,436,206 6,206,160 3,611

3-29-2001

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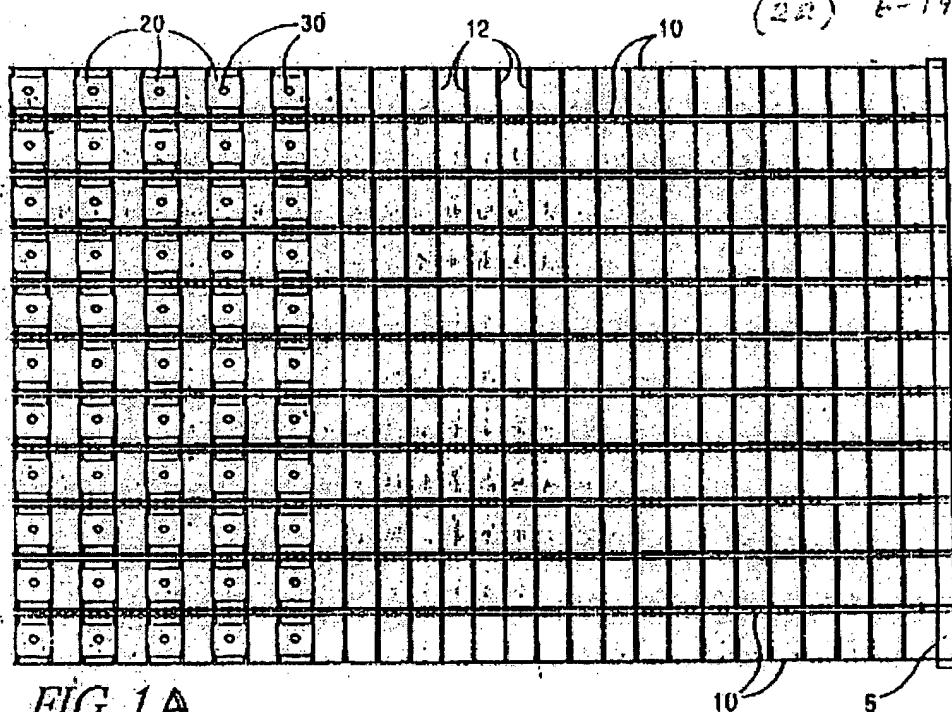
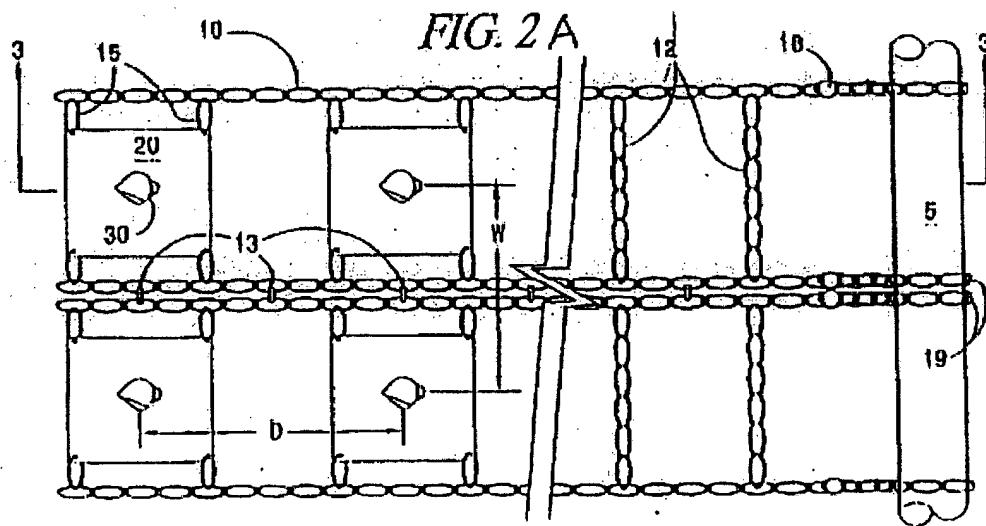


FIG. 1A

PRIOR ART

FIG. 2A



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